SEVERE WEATHER PREPAREDNESS WEEK





March 18-24, 2012

Governor Mitch Daniels has proclaimed March 18th through 24th, 2012 as Severe Weather Preparedness Week in Indiana. The National Weather Service, in conjunction with the Indiana State Police and Public Safety Commission, Indiana Department of Homeland Security, Department of Education, the Indiana Broadcaster's Association, the Red Cross, and Amateur Radio Operators will conduct a statewide test of communication systems on Wednesday, March 21 at 10:15 A.M. and 7:35 P.M. EDT. If weather postpones the tests, make-up tests are Thursday, March 22 at the same times listed.

The goal of Severe Weather Preparedness Week is to better educate people about the hazards of severe thunderstorms and tornadoes, and to help everyone be prepared should severe weather occur.

This packet contains information about severe weather terms, safety rules, and some tornado events

that affected Indiana. Daily statements will be issued on newswires and NOAA All Hazards Radio during the week. Your local National Weather Service office and our partners are available for interviews.

SPRING 2012

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OTHER DATES TO NOTE

National Flood Safety
Preparedness Week
March 12-16, 2012
www.weather.gov/floodsafety

National Safe Boating Week
 May 19-25, 2012
 www.safeboatingcouncil.org

Lightning Safety Week
 June 24-30, 2012
 www.lightningsafety.noaa.gov

Winter Weather Preparedness
 Week for Indiana
 November 11-17, 2012

Preparedness Week Daily Focus

Sunday, March 18: Kick-off; Discuss everyone's (You, NWS, Media, Emergency Re-

sponse Officials, Homeland Security, Red Cross, Public) roles in

Severe Weather

Monday, March 19: Severe Weather Outlook; Everyone's roles at the Outlook stage of

an event

Tuesday, March 20: Watch; Everyone's roles at the Watch stage

Wednesday, March 21: Warning; Everyone's role in Warnings; emphasize statewide

tornado drill as time to practice plans.

Thursday, March 22: Response; Everyone's roles in responding to disasters (real-time

response)

Friday, March 23: Recovery; Everyone's roles in the recovery process (days/weeks/

months) after disaster

Saturday, March 24: Wrap-up; importance of preparedness and action during threatening

hazards.

Graphical Weather Briefings are available as "Top News of the Day" at the top of NWS homepages whenever significant weather or flood hazards may occur.





- Indiana set a record in 2011 for tornadoes with 72 occurring; 32 on April 19; 26 on May 25. The annual average is 20 tornadoes causing 4 fatalities.
- The average forward speed is 30 mph but varies from 0 to 70 mph. The average tornado width is about 100 yards but can reach one mile wide.
- Tornadoes occur year round but are most likely from April to June. Preferred hours are from 3 p.m. to 8 p.m. with a second peak from 12 a.m. to 3 a.m.

TORNADO SAFETY

IN HOMES OR SMALL BUILDINGS:

Go to the basement (if available) or to an interior room on the lowest floor, such as a closet or bathroom. Wrap yourself in overcoats or blankets to protect yourself from flying debris.

IN SCHOOLS, HOSPITALS, FACTORIES, OR SHOPPING CENTERS:

Go to interior rooms and halls on the lowest floor. Stay away from glass enclosed places or areas with wide-span roofs such as auditoriums and warehouses. Follow the instructions of the facility safety officials.

IN HIGH-RISE BUILDINGS:

Go to interior small rooms or halls. Stay away from exterior walls or glassy areas.

IN CARS OR MOBILE HOMES:

ABANDON THEM IMMEDIATELY!! Most tornado deaths occur in cars and mobile homes. If you are in either of those locations, leave them and go to a substantial structure or designated tornado shelter.

IF NO SUITABLE STRUCTURE IS NEARBY:

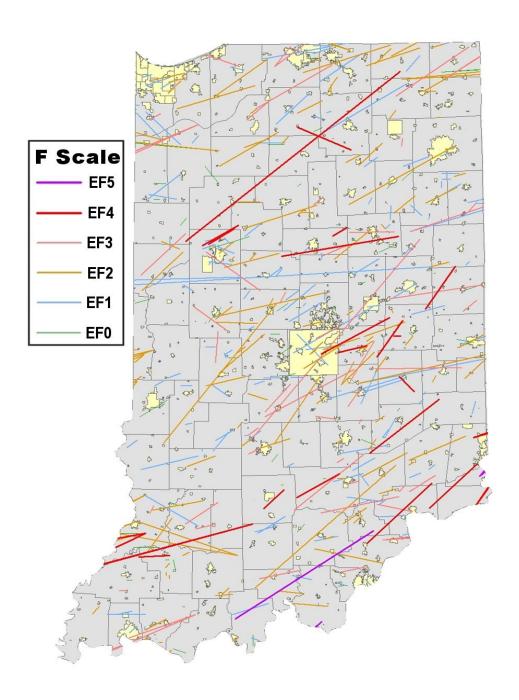
Lie flat in the nearest ditch or depression and use your hands to cover your head.

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This map depicts historical tornado tracks in the state of Indiana. To see a full color version of this map included in the newsletter, go to our web site at http://www.weather.gov/ind/

2011 U.S. Tornadoes: http://www.spc.noaa.gov/wcm/#2011

Indiana Tornado Tracks 1950-2005







LIGHTNING SAFETY WEEK JUNE 24-30, 2012

www.lightningsafety.noaa.gov

All thunderstorms produce lightning and are dangerous. Lightning kills more people each year than tornadoes.

Lightning can strike as far as 10 miles away from any rainfall. Many deaths from lightning occur ahead of the storm because people wait to the last minute before seeking shelter. You are in danger from lightning if you can hear thunder. If you can hear thunder, lightning is close enough that it could strike your location at any moment. Get inside! "When thunder roars go indoors!"

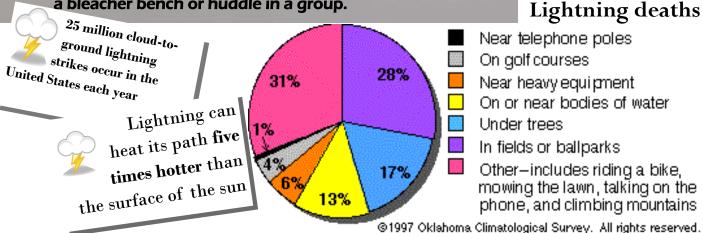
Lightning injuries can lead to permanent disabilities or death. On average, 10% of strike victims die; 70% of survivors suffer serious long term effects.

Blue Skies and Lightning. Lightning can travel sideways for up to 10 miles. Even when the sky looks blue and clear, be cautious. If you hear thunder, take cover. At least 10% of lightning occurs without visible clouds overhead in the sky.

- ~ Inside a building with wiring or plumbing is safest. Inside a hard-topped vehicle is safer than outside but avoid contact with metal or outside parts of the vehicle.
- If you can't get to a shelter, stay away from trees or open areas where you may be the tallest object.
- Avoid metal! Avoid leaning against vehicles. Get off bicycles and motorcycles. Don't hold on to metal items such golf clubs, fishing rods, tennis rackets or tools.
- Get out of the water, it's a great conductor of electricity. Don't stand in puddles of water, even if wearing rubber boots.

Move away from a group of people. Stay several yards away from other people. Don't share
 a bleacher bench or huddle in a group.

Lightning deaths





SEVERE WEATHER TERMS AND DEFINITIONS

Warning - A weather hazard is imminent or reported and requires immediate action to protect life and property.

Watch - Hazardous weather may occur. Watch for information; review safety plans..

Severe Thunderstorm - A thunderstorm that produces tornadoes, hail one inch or more in diameter, or winds of 50 knots (58 mph) or more.

Moderate Risk (of severe thunderstorms) - Severe thunderstorms are expected to affect between 5 and 10 percent of the area. A moderate risk indicates the possibility of a significant severe weather episode. A Watch will likely be issued.

High Risk (of severe thunderstorms) - Severe weather is expected to affect more than 10 percent of the area. A high risk is rare, and implies an unusually dangerous situation and usually the possibility of a major severe weather outbreak.

Cold-air Funnel - A funnel cloud that can develop from a small shower or thunderstorm when the air aloft is unusually cold (hence the name). On rare occasions, small, relatively weak tornado can occur. These weak tornadoes last only a few minutes and are generally much less violent than other types of tornadoes.



Be Red Cross Ready



Emergency Preparedness Kit for your home

- Food and water for 3 days (1 gallon of water per person per day)
- Flashlights and extra batteries
- Battery-powered or hand-crank radio (NOAA Weather Radio, if possible)
- First aid kit
- Medications (7-day supply) and medical items
- Multi-purpose tool
- Sanitation and personal hygiene items
- Copies of personal documents
- Cell phone contact information
- Extra cash



Special needs NOAA Weather Radios designed to meet the needs of the hearing impaired are available.

For more information, visit: http://www.nws.noaa.gov/nwr For Special Needs NOAA Weather Radio information, visit: http://www.nssl.noaa.gov/edu/safety/ specialneeds.html

NOAA All Hazards Radio

Keep ahead of the storm by listening to NOAA Weather Radio for the latest weather watches, warnings, and advisories. The Specific Area Message Encoding (SAME) feature of NOAA Weather Radio activates the Emergency Alert System (EAS). EAS is used to provide notification of emergencies to the public.

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Graphical Web Briefings are here!



Graphical web briefings will be available from the National Weather Service websites, as needed, whenever significant, life threatening, hazardous weather or flooding is expected. Short Term Forecasts of hazardous weather may also be depicted graphically as needed.

The Graphical web briefings, when available, can be found at the top of our homepages in the "Top News of the Day" headlines.

HEAT WAVE

How can I be prepared and stay safe?

- Wear light clothes, sunglasses and a hat to protect yourself from the sun.
- Drink plenty of water at all times, even if you do not feel thirsty.
- Do not overexert yourself.
- Eat light meals.
- Stay out of the sun when possible.

Relative Humidity (%)

°F	40	45	50	55	60	65	70	75	80	85	90	95	100	With Prolonged Exposure
110	136													and/or Physical Activity
108	130	137							Heat Index			Extreme Danger		
106	124	130	137							(Apparent Temperature)			Heat stroke or sun stroke highly	
104	119	124	131	137									likely	
102	114	119	124	130	137				_				Danger	
100	109	114	118	124	129	136								Sunstroke, muscle cramps
98	105	109	113	117	123	126								and/or heat exhaustion likely
96	101	104	108	112	116	121	126	132						Extreme Caution
94	97	100	103	106	110	114	119	124	129	135				Sunstroke, muscle cramps
92	94	96	99	101	105	108	112	116	121	126	131			and/or heat exhaustion likely
90	91	93	95	97	100	103	106	109	113	117	122	127	132	Caution
88	88	89	91	93	95	98	100	103	106	110	113	117	121	Fatigue possible
86	85	87	88	89	91	93	95	97	100	102	105	108	112	r dugue possible
84	83	84	85	86	88	89	90	92	94	96	98	100	103	
82	81	82	83	84	84	85	86	88	89	90	91	93	95	
80	80	80	81	81	82	82	83	84	84	85	86	86	87	

Did you know?

In 2006, according to NWS statistics, **253 fatalities** were attributed to heat!

There were 1513 injuries.



www.nws.noaa.gov/om/hazstats/sum06.pdf

SEVERE WEATHER PREPAREDNESS WEEK

Weather Enthusiasts Wanted!

Volunteers are wanted to join the **CoCoRaHS** network in Indiana! Anyone can participate. The only requirement is a desire to learn more about how the weather impacts our daily lives. The project website is located at http://www.cocorahs.org

The **CoCoRaHS** network is a non-profit community based network of volunteer observers who measure and record daily amounts of precipitation (rain, hail, and snow). The data collected will help forecasters and resource managers better understand the variable patterns of Indiana's weather.

CoCoRaHS in Indiana is a collaborative effort between the National Weather Service and the Indiana State Climate Office at Purdue University.

Skywarn Storm Spotter training is also conducted each spring to help folks better understand signs for severe weather and report storm information to the National Weather Service. See your local NWS office home page for storm spotter talks in your area.

Flood and Flash Flood Information

CHECK OUT THE ADVANCED HYDROLOGIC PREDICTION SERVICE (AHPS)

AHPS is a great tool to check out the latest in river flood information. Information on flood stage, flood impacts and any current flood warnings or statements is available for each station on the map. If you live or work near a river or stream, this page will be of great help to you! http://water.weather.gov/ahps/

FLOOD AND FLASH FLOOD SAFETY TIPS

- Monitor NOAA All Hazards Radio or your favorite news source for vital weather information.
- If flooding occurs, get to higher ground, away from areas subject to flooding.
- Avoid areas already flooded and do not attempt to cross flowing streams.
- Do not drive around barriers that warn you the road is flooded. Some cities and counties will issue a fine to motorists who ignore barriers!
- Never drive through flooded roadways as road beds may be washed out under flood waters.
- If your vehicle is suddenly caught in rising water, leave it immediately and seek higher ground.
- Do not camp or park your vehicle along streams and washes, if there is a threat of flooding. Be
 especially cautious at night when it is harder to recognize flood dangers.



FLOOD FACTS

According to FEMA:

The average annual U.S. flood losses from 1996-2005 was more than \$2.4 billion.

Hurricanes, winter storms and snow melt are common (but often overlooked) causes of flooding.

In 2008, major spring, summer and fall floods resulted in FEMA Disaster Declarations for most Indiana counties.

March 12-16, 2012

Flood Safety Week

www.weather.gov/floodsafety

CRITICAL NWS FLOOD PRODUCTS

<u>Hydrologic Outlook</u>: This product alerts the public when flood producing rainfall is expected in 36 to 72 hours. During the months of February and March, this product also contains information on the potential for flooding from the spring snow melt.

Flood Watch: A flood or flash flood watch is issued when conditions are favorable for flooding or flash flooding to develop.

<u>Flash Flood Warning</u>: A warning is issued when rapid flooding is imminent. Flash floods quickly develop within six hours of a heavy rainfall event.

<u>Urban/Small Stream Flood Advisory</u> (issued as a Flood Statement): These statements are issued when minor flooding problems are expected, mostly in flood prone urban areas or near small streams that may rise quickly out of their banks. Even minor flooding can cause huge problems if proper precautions are not taken.

Flood Warning: These warnings are issued for river floods or for widespread flooding across a county. River flooding mostly occurs with longer periods of rain which result in slower rises in flood waters and a prolonged flood event.



NATIONAL WEATHER SERVICE CONTACTS



INDIANAPOLIS, IN—David Tucek, david.tucek@noaa.gov, 317-856-0360 x726

NORTHERN INDIANA—Michael Lewis, michael.lewis@noaa.gov, 574-834-1104 x726

CHICAGO, IL—Jim Allsopp, jim.allsopp@noaa.gov, 815-834-0600 x726

LOUISVILLE, KY—Joe Sullivan, joe.sullivan@noaa.gov, 502-969-8842

PADUCAH, KY—Ricky Shanklin, ricky.shanklin@noaa.gov, 270-744-6440 x726

WILMINGTON, OH—Mary Jo Parker, mary.parker@noaa.gov, 937-383-0428

